

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	13	rotolin\$3 and ((top second over) adj (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/23 13:08
L2	5	rotolin\$3 and ((protective) adj (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/23 13:09
L3	24	rotolin\$3 and ((second top) near4 (coat\$3 layer film)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/23 13:09
L4	36	rotolin\$3 and ((second top) near4 (coat\$3 layer film)) same thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/23 13:09
S1	2	"US 20040137145"	US-PGPUB; USPAT; USOCR; DERWENT	OR	ON	2007/04/09 12:36
S7	4	((("4316836") or ("20020002248") or ("5760151") or ("20020011692")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/07/24 17:31
S8	1	("1031384").PN.	EPO	OR	OFF	2007/04/09 12:39
S17	5	S7 or S8	US-PGPUB; USPAT; USOCR; EPO	OR	ON	2007/04/09 15:31
S18	4	((("4714756") or ("3528954") or ("5677404")).PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 15:07
S19	1	("6632902").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/04/09 15:31
S20	11	("3184525"   "3528954"   "4380618"   "4714756"   "4743658"   "5093409"   "5677404"   "5760151"   "6287632").PN. OR ("6632902").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 15:32
S21	7	("5981673"   "6624269"   "6632902").PN. or ("20020002248"   "20020011692"   "4316836"   "5760151").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/04/09 16:47
S22	0	("0778088").PN.	EPO	OR	OFF	2007/07/23 15:50
S23	0	("0778088").PN.	EPO	OR	OFF	2007/07/23 15:50
S24	11	"778088"	US-PGPUB; USPAT	OR	ON	2007/07/23 15:50
S25	3	"778088"	EPO; DERWENT	OR	ON	2007/07/23 16:00
S26	1	("5760151").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/23 16:01
S27	0	("2002011692").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/23 16:01

S28	1	("20020011692").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/23 16:01
S29	0	("2002/0011692").URPN.	USPAT	OR	ON	2007/07/23 16:03
S30	1	nishio.in. and aida.in.	USPAT	OR	ON	2007/07/23 16:03
S31	5	("5397831"   "5473018").PN. OR ("6287632").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 16:35
S32	32	tamura.in. and sugiyama.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 16:35
S33	0	tamura.in. and sugiyama.in. and lining and pipe	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 16:35
S34	1	tamura.in. and sugiyama.in. and pipe	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 16:36
S35	32	tamura.in. and sugiyama.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/23 16:37
S36	46	rotolin\$3 and (copolymer same (TFE or PFE))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 15:10
S37	50	rotolin\$3 and (copolymer) and thickness and metal	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 14:52
S38	20	lahijani.in.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:46
S39	23	rotolin\$3 and (copolymer same (PTFE))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:27
S40	46	rotolin\$3 and (copolymer same (PFA))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:22
S41	1	("5473018").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/24 16:22
S42	7	("20020002248"   "20020011692"   "4316836"   "5760151"   "5981673"   "6624269"   "6632902").PN.	US-PGPUB; USPAT	OR	ON	2007/07/24 16:24
S43	5	rotolin\$3 and (copolymer same (thick or thickness) same (undercoat or topcoat))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:34
S44	11	("3184525"   "3528954"   "4380618"   "4714756"   "4743658"   "5093409"   "5677404"   "5760151"   "6287632").PN. OR ("6632902"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:29
S45	19	(rotolin\$3 or extrud\$3).ab. and (copolymer same (thick or thickness) same (undercoat or topcoat))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:37
S46	902	(rotolin\$3 or extrud\$3).ab. and (copolymer same (thick or thickness))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:37
S47	43	(rotolin\$3 or extrud\$3).ab. and (PFA same (thick or thickness))	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:38
S48	6	(rotolin\$3 or extrud\$3).ab. and (PFA same (thick or thickness) same metal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:38

S49	0	(rotolin\$3 or extrud\$3).ab. and (PFA same additive same metal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 09:29
S50	12	(rotolin\$3 or extrud\$3).ab. and (PFA same metal)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/24 16:39
S51	1	((("4316836") or ("2002002248")). PN.	US-PGPUB; USPAT	OR	OFF	2007/07/24 16:39
S52	2	((("4316836") or ("2002002248")). PN.	US-PGPUB; USPAT	OR	OFF	2007/07/24 16:43
S53	0	SANRETSUKUSU.in.	US-PGPUB; USPAT	OR	ON	2007/07/24 16:44
S54	1218	TATE.in.	US-PGPUB; USPAT	OR	ON	2007/07/24 16:44
S55	0	TATE.in. and fluororesin	US-PGPUB; USPAT	OR	ON	2007/07/24 16:44
S56	77	TATE.in. and container	US-PGPUB; USPAT	OR	ON	2007/07/24 17:07
S57	5	"023566"	US-PGPUB; USPAT	OR	ON	2007/07/24 17:09
S58	3276	tate.in.	EPO; JPO; DERWENT	OR	ON	2007/07/24 17:09
S59	3	(tate near2 kazumi).in.	EPO; JPO; DERWENT	OR	ON	2007/07/24 17:10
S60	639	(tate).in.	DERWENT	OR	ON	2007/07/24 17:10
S61	0	(tate).in. and fluororesin	DERWENT	OR	ON	2007/07/24 17:10
S62	4	(tate).in. and fluoro\$	DERWENT	OR	ON	2007/07/24 17:13
S63	0	"023566"	DERWENT	OR	ON	2007/07/24 17:13
S64	0	(mansion near2 kazumi).in.	US-PGPUB; USPAT	OR	ON	2007/07/24 17:31
S65	3356	(kazumi).in.	US-PGPUB; USPAT	OR	ON	2007/07/24 17:32
S66	53	(kazumi).in. and fluororesin	US-PGPUB; USPAT	OR	ON	2007/07/24 17:32
S67	40	(rotolin\$3 or extrud\$3).ab. and (PFA same thickness)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 09:29
S68	39	(rotolin\$3 or extrud\$3).ab. and (PFA same thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 09:38
S69	156	(rotolin\$3 or extrud\$3).ab. and (\$tetrafluoroethylene same thick \$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:36
S70	1	(rotolin\$3).ab. and (\$tetrafluoroethylene same thick \$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:07
S71	18	(rotolin\$3) and (\$tetrafluoroethylene same thick \$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:07

S72	215	(rotolin\$3 or extrud\$3 or extrusion).ab. and (\$tetrafluoroethylene same thick \$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:16
S73	70	(rotolin\$3 or extrud\$3 or extrusion).ab. and (\$tetrafluoroethylene same thick \$4) and (overcoat or undercoat or overlay\$3 or "on top of" or over) with (\$coat or layer or underlayer)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:21
S74	5	("5397831"   "5473018").PN. OR ("6287632").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:25
S75	5	S74 and thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 10:34
S76	1	("5782730").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/25 10:55
S77	2	((("5782730") or ("5397831"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/07/25 10:56
S78	3	((("5782730") or ("5397831") or ("20050173012"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/07/25 10:56
S79	0	("2005/0173012").URPN.	USPAT	OR	ON	2007/07/25 10:57
S80	5	((("20070148391") or ("20050016610") or ("20040138367") or ("20020011692") or ("6632902"))).PN.	US-PGPUB; USPAT	OR	OFF	2007/07/25 16:23
S81	1	("20050173012").PN.	US-PGPUB; USPAT	OR	OFF	2007/07/25 16:23
S82	0	("2005/0016610").URPN.	USPAT	OR	ON	2007/07/25 16:24
S83	0	("2005/0173012").URPN.	USPAT	OR	ON	2007/07/25 16:24
S84	1057	(rotolin\$3 or extrud\$3) same (\$tetrafluoroethylene same thick \$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:36
S85	347	(rotolin\$3 or extrud\$3) same (\$tetrafluoroethylene same copolymer same thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:48
S86	71	(rotolin\$3 or extrud\$3) same (\$tetrafluoroethylene with copolymer with thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:39
S87	46	(rotolin\$3 or extrud\$3) same (PFA same copolymer same thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 18:04
S88	1	(rotolin\$3) same (PFA same copolymer same thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 16:48
S89	5	(rotolin\$3) same (PFA same thick \$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:00
S90	38	(rotolin\$3) same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:15
S91	186	(rotolin\$3 or rotomold\$3 or rotomould\$3) same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:16

S92	2078448	(rotolin\$3 or rotomold\$3 or rotomould\$3) same copolymer (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:16
S93	18	(rotolin\$3 or rotomold\$3 or rotomould\$3) same copolymer same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:34
S94	10	(rotolin\$3 or rotomold\$3 or rotomould\$3) same (TFE or PTFE or tetrafluoroethylene) same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:26
S95	10	(rotolin\$3 or rotomold\$3 or rotomould\$3) same (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:26
S96	51	(rotolin\$3 or rotomold\$3 or rotomould\$3) and (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:54
S97	123	(rotolin\$3 or rotomold\$3 or rotomould\$3) and copolymer same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 18:04
S98	27	(rotolin\$3) and copolymer same (thick\$4)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 17:53
S99	3	(rotolin\$3 or rotomold\$3 or rotomould\$3) and (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	EPO; JPO; DERWENT	OR	ON	2007/07/25 18:09
S100	3	(rotolin\$3 or rotomold\$3 or rotomould\$3) and (copolymer) same (thick\$4)	EPO; JPO; DERWENT	OR	ON	2007/07/25 17:58
S101	5	(rotolin\$3 or rotomold\$3 or rotomould\$3) and (copolymer) and (thick\$4)	EPO; JPO; DERWENT	OR	ON	2007/07/25 18:00
S102	1	(rotolin\$3 or rotomold\$3 or rotomould\$3) and (copolymer) and (thick\$4)	EPO	OR	ON	2007/07/25 18:00
S103	0	(rotolin\$3 or extrud\$3) same (PFA same copolymer same thinner)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 18:04
S104	15	(rotolin\$3 or rotomold\$3 or rotomould\$3) and copolymer same (thinner)	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/25 18:04
S105	6	(rotolin\$3 or rotomold\$3 or rotomould\$3 or (rotational adj (lining or molding or moulding))) and (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	EPO; JPO; DERWENT	OR	ON	2007/07/25 18:10
S106	3	((rotational adj (lining or molding or moulding))) and (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	EPO; JPO; DERWENT	OR	ON	2007/07/25 18:10

S107	57	((rotational adj (lining or molding or moulding))) and (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	US-PGPUB; USPAT	OR	ON	2007/07/25 18:11
S108	2	((rotational adj (lining))) and (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene) same (thick\$4)	US-PGPUB; USPAT	OR	ON	2007/07/25 18:11
S109	49	(kazumi).in. and "593"	US-PGPUB; USPAT	OR	ON	2008/02/13 13:42
S110	0	(kazumi).in. and "904593"	US-PGPUB; USPAT	OR	ON	2008/02/13 13:42
S111	0	(mansion near2 kazumi).in.	US-PGPUB; USPAT	OR	ON	2008/02/13 13:43
S112	39608	tetrafluoroethylene	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 11:28
S113	1587	((perfluoro near2 (methyl adj vinyl adj ether)) PMVE)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 11:29
S114	1777	((perfluoro near2 (propyl adj vinyl adj ether)) PPVE)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 11:29
S115	1907	(S112 with S113 with S114) or MFA	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 11:29
S116	418	(S112 with S113 with S114)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 11:30
S117	44	(S112 near2 S113 near2 S114)	US-PGPUB; USPAT; USOCR	OR	ON	2008/02/14 11:30
S118	133	fluoropolymer and "metal contamination"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 11:48
S119	1	fluoropolymer and "low metal contamination"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/30 15:31
S120	136	fluoropolymer and "metal contamination"	US-PGPUB; USPAT; USOCR	OR	ON	2009/03/30 15:31
S121	3046	fluorinat\$3 with (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene or PAVE)	EPO; JPO; DERWENT	OR	ON	2009/09/25 11:17
S122	3	fluorin\$6 near4 (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene or PAVE) with bubb\$3	EPO; JPO; DERWENT	OR	ON	2009/09/25 11:18
S123	3	fluorin\$6 near4 (TFE or PTFE or tetrafluoroethylene or polytetrafluoroethylene or PAVE) with bubb\$3	US-PGPUB; USPAT	OR	ON	2009/09/25 11:18
S124	1	("5397831").PN.	US-PGPUB; USPAT	OR	OFF	2009/09/29 10:55
S125	14	("4714756"   "4914158"   "5006594"   "5093403").PN. OR ("5397831").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 12:05
S126	2	S125 and ((overcoat\$3) (second adj coat\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 13:09
S127	13	S125 and (coat\$3 layer film)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 13:11

S128	15	rotolin\$3 and overcoat	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 13:11
S129	23	rotolin\$3 and (second adj (coat\$3 layer))	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 13:12
S130	9	("5397831"   "5473018").PN. OR ("6287632").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 13:17
S131	6	S130 and (second adj (coat\$3 layer))	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 13:57
S132	6	S130 and (second)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:01
S133	8	S130 and (second top overcoat)	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:01
S134	20	rotolin\$3 and (top adj (coat\$3 layer))	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:03
S135	12	rotolin\$3 and ((top second over) adj (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:14
S136	12	rotolin\$3 and ((top second over protective) adj (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:15
S137	5	rotolin\$3 and ((protective) adj (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:15
S138	0	rotolin\$3 and ((filler adj free) adj (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:17
S139	0	rotolin\$3 and ((filler adj free) near4 (coat\$3 layer)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:17
S140	2	rotolin\$3 and ((second top) near4 (film)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:18
S141	20	rotolin\$3 and ((second top) near4 (coat\$3 layer film)) with thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:21
S142	30	rotolin\$3 and ((second top) near4 (coat\$3 layer film)) same thick\$4	US-PGPUB; USPAT; USOCR	OR	ON	2009/09/29 14:21
S143	1	("4897439").PN.	US-PGPUB; USPAT	OR	OFF	2010/04/07 15:55
S144	43	("2732357"   "2954359"   "3824115"   "3856736"   "3920793"   "3970627"   "3981945"   "4090993"   "4154876"   "4166536"   "4248763"   "4252859"   "4425448"   "4478965"   "4578427"   "4613645").PN. OR ("4897439").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/07 15:55
S145	4	S144 and overcoat\$3	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/07 15:55
S146	8	S144 and ((overcoat\$3) (top adj coat) (topcoat))	US-PGPUB; USPAT; USOCR	OR	ON	2010/04/07 15:55

**EAST Search History (Interference)**

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